# CHAPTER 4

## POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE CANEY FORK RIVER WATERSHED

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**4.1. BACKGROUND.** This chapter is organized by HUC-10 subwatershed, and the description of each subwatershed is divided into four parts:

i. General description of the subwatershed
ii. Description of point source contributions
ii.a. Description of facilities discharging to water bodies listed on the 1998 303(d) list
iii. Description of nonpoint source contributions

The Caney Fork River Watershed (HUC 05130108) has been delineated into nine HUC 10-digit subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 1.1 beta (developed by Tetra Tech, Inc for EPA Region 4) released in 2000.

WCS integrates with ArcView® v3.2 and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

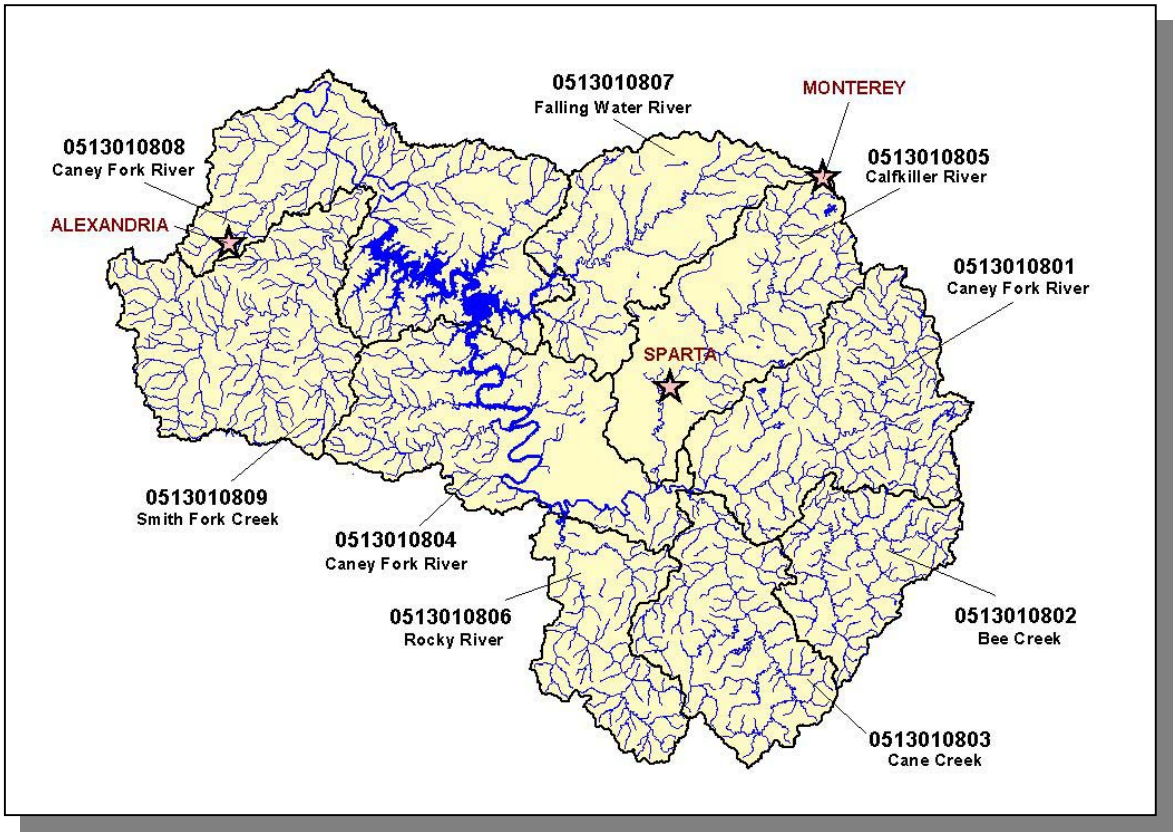


***Figure 4-1. The Caney Fork River Watershed is Composed of Nine USGS-Delineated Subwatersheds (10-Digit Subwatersheds).*** *Locations of Alexandria, Monterey, and Sparta are shown for reference.*

**4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS.** The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Caney Fork River Watershed.

| HUC-10 | HUC-12 | |
|---|---|---|
| 0513010801 | 051301080101 (Caney Fork River) | 051301080103 (Caney Fork River) |
| | 051301080102 (Laurel Creek) | 051301080104 (Caney Fork River) |
| | | |
| 0513010802 | 051301080201 (Bee Creek) | 051301080203 (Bee Creek) |
| | 051301080202 (Glade Creek) | |
| | | |
| 0513010803 | 051301080301 (Upper Cane Creek) | 051301080303 (Lower Cane Creek) |
| | 051301080302 (Piney Creek) | |
| | | |
| 0513010804 | 051301080401 (Caney Fork River) | 051301080405 (Caney Fork River) |
| | 051301080402 (Caney Fork River) | 051301080406 (Fall Creek) |
| | 051301080403 (Sink Creek) | 051301080407 (Eagle Creek) |
| | 051301080404 (Pine Creek) | |
| | | |
| 0513010805 | 051301080501 (Upper Calfkiller River) | 051301080503 (Middle Calfkiller River) |
| | 051301080502 (Bridge Creek) | 051301080504 (Lower Calfkiller River) |
| | | |
| 0513010806 | 051301080601 (Rocky River) | 051301080602 (Rocky River) |
| | | |
| 0513010807 | 051301080701 (Upper Falling Water River) | 051301080704 (Cane Creek) |
| | 051301080702 (Middle Falling Water River) | 051301080705 (Taylor Creek) |
| | 051301080703 (Lower Falling Water River) | |
| | | |
| 0513010808 | 051301080801 (Center Hill Lake) | 051301080805 (Caney Fork River) |
| | 051301080802 (Center Hill Lake) | 051301080806 (Caney Fork River) |
| | 051301080803 (Mine Lick Creek) | 051301080807 (Hickman Creek) |
| | 051301080804 (Center Hill Lake) | 051301080808 Mulherrin Creek) |
| | | |
| 0513010809 | 051301080901 (Smith Fork Creek) | 051301080904 (Clear Fork) |
| | 051301080902 (Saunders Fork) | 051301080905 (Dry Creek) |
| | 051301080903 (Smith Fork Creek) | 051301080906 (Smith Fork Creek) |

***Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages.*** *NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.*